

DIABETES

LITERATURE INDEX

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DIABETES LITERATURE INDEX

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DEVELOPMENT OF A NEW TYPE OF FILTER

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ABSTRACT: A new type of filter has been developed which is capable of filtering a wide range of particles.

Keywords: filtration; membranes; polymers; colloids; suspensions

INTRODUCTION

The development of a new type of filter has been a long and arduous task. The first filters were made of animal skin and were used to filter wine. Later, filters made of paper and cloth were developed. In the early 1900s, filters made of asbestos were used to filter water. In the 1940s, filters made of synthetic materials were developed. In the 1950s, filters made of polymers were developed. In the 1960s, filters made of membranes were developed. The new type of filter described in this paper is a membrane filter which is capable of filtering a wide range of particles. It is made of a polymer which has been specially treated to give it the desired properties. It is capable of filtering particles as small as 0.1 microns and as large as 100 microns. It is also capable of filtering a wide range of liquids and gases. The new type of filter is a significant advance in the field of filtration and has many potential applications.

EXPERIMENTAL

The new type of filter was prepared by the following procedure:

1. A polymer solution was prepared by dissolving a certain amount of polymer in a certain amount of solvent.
2. The solution was cast onto a flat surface and allowed to dry.
3. The dried film was then treated with a certain chemical to give it the desired properties.
4. The treated film was then cut into the desired shape and size.

The new type of filter was then tested by filtering a certain liquid through it.

The results of the tests are shown in the following table:

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PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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National Institute of Arthritis,
Metabolism, and Digestive Diseases
Building 31, Room 9A-03
Bethesda, Maryland 20014

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1981.

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are

eliminated. In no case, however, is a change made within the title itself. Words which have not appeared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: All authors in multiple author publications are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

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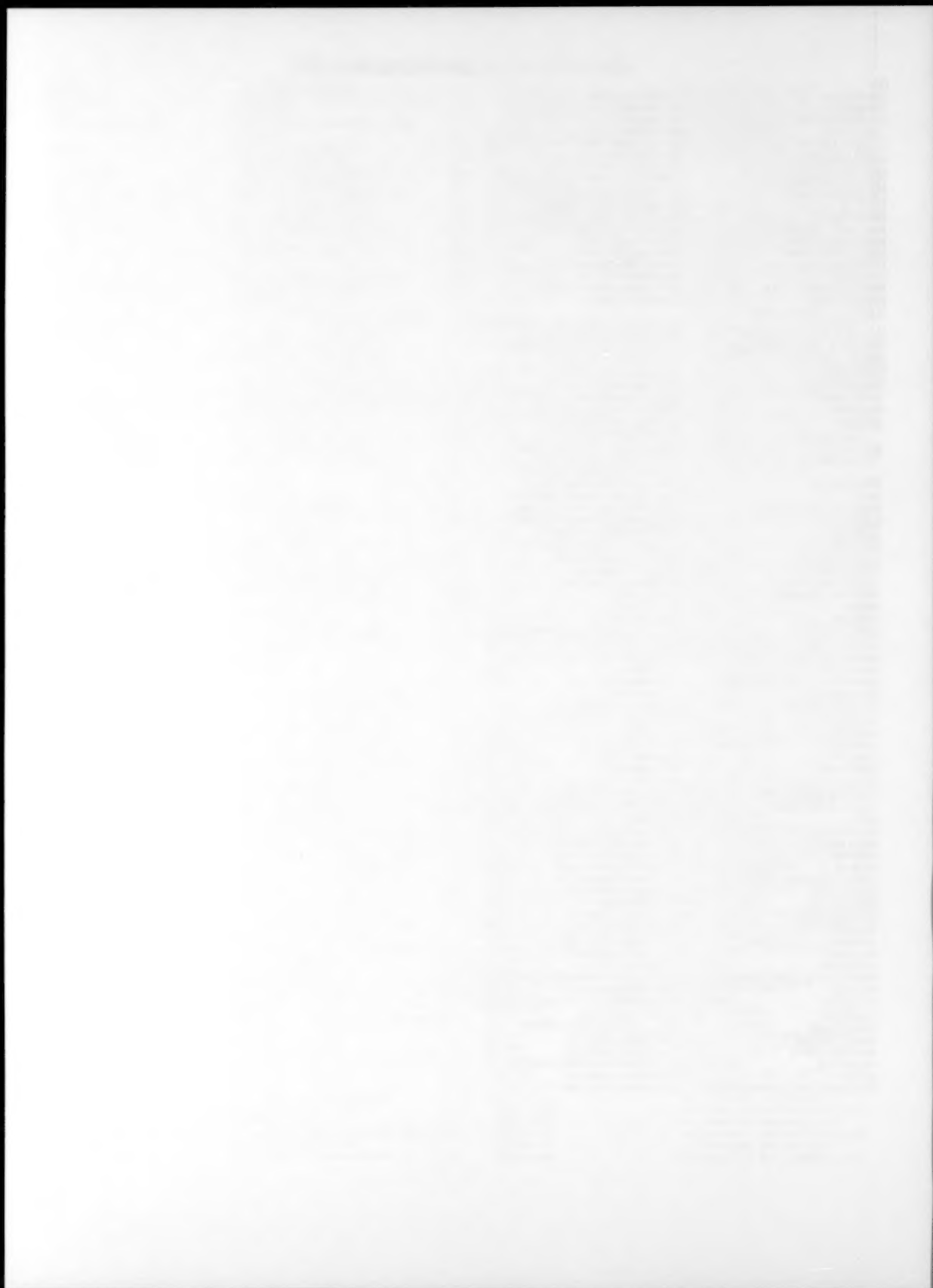
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SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

1.A ISLANDS OF LANGERHANS

RECENT DEVELOPMENTS IN DIABETES RESEARCH. Winter RJ *Compr Ther* 4: 6-12, Jun 78 (Eng) DL/78NOV266

GLUCAGON SECRETION IN TWO PATIENTS WITH AUTOANTIBODIES TO GLUCAGON-PRODUCING CELLS. Del Prete GF, Tiengo A, Nosadini R, Bottazzo GF, Betterle C, Bersani G *Horm Metab Res* 10: 260-1, May 78 (Eng) DL/78NOV375

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[ISOLATION OF THE ISLANDS OF LANGERHANS AND THEIR TRANSPLANTATION UNDER EXPERIMENTAL CONDITIONS] Vakhruшева LL, Kniazev IuA, Sapelkina IM *Probl Endokrinol (Mosk)* 24: 88-91, May-Jun 78 (Rus) DL/78NOV536

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CYCLIC CHANGES IN POTENTIAL AND RESISTANCE OF THE BETA-CELL MEMBRANE INDUCED BY GLUCOSE IN ISLETS OF LANGERHANS FROM MOUSE. Atwater I, Ribalet B, Rojas E *J Physiol (Lond)* 278: 117-39, May 78 (Eng) DL/78NOV427

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CALCIUM AND PANCREATIC BETA-CELL FUNCTION. 4. EVIDENCE THAT GLUCOSE AND PHOSPHATE STIMULATE CALCIUM-45 INCORPORATION INTO DIFFERENT INTRACELLULAR POOLS. Hellman B, Andersson T *Biochim Biophys Acta* 541: 483-91, 17 Jul 78 (Eng) DL/78NOV216

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[STATE OF THE ISLANDS OF LANGERHANS IN VARIOUS ANIMAL SPECIES AFTER ADMINISTRATION OF 8-(ARENSULFONYLAMINO)-QUINOLINES] Eshchenko VA *Probl Endokrinol (Mosk)* 24: 103-7, May-Jun 78 (Rus) DL/78NOV531

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EFFECT OF PHENTOLAMINE ON THE SOMATOSTATIN-INDUCED INHIBITION OF GLUCAGON AND INSULIN SECRETION. Kaneto A, Kajinuma H, Kaneko T, Kosaka K *Metabolism* 27: 901-10, Aug 78 (Eng) DL/78NOV476

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[STATE OF THE SYMPATHETIC-ADRENAL SYSTEM IN LABILE AND RESISTANT FORMS OF DIABETES MELLITUS] Iukhlova NA *Sov Med* 51-6, Jun 78 (Rus) DL/78NOV582

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1.C.7 INSULIN, THERAPY RELATED

1.C.7.1 INSULIN, DIAGNOSTIC USE

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1.C.7.2 INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)

1.C.7.3 INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)

1.C.8 INSULIN, HISTORY

1.D GLUCAGON

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1.D.1 GLUCAGON, BIOCHEMISTRY RELATED

1.D.1.1 GLUCAGON, ANALYSIS

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1.D GLUCAGON

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[THE INFLUENCE OF THE CENTRAL NERVOUS SYSTEM ON GLUCOSE PHYSIOLOGICAL EQUILIBRIUM IN MAN (AUTHORS TRANSL)] Grote E *Nervenarzt* 49: 271-76, May 78 (Ger) DL/78NOV495

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1.D.1.3 GLUCAGON, BLOOD

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[INFLUENCE OF RENAL FUNCTION ON THE KINETICS OF PANCREATIC HORMONES IN CHRONIC RENAL DISORDERS (AUTHORS TRANSL)] Kanno R *Nippon Jinzo Gakkai Shi* 20: 137-50, Feb 78 (Jpn) DL/78NOV442

EFFECT OF PHENTOLAMINE ON THE SOMATOSTATIN-INDUCED INHIBITION OF GLUCAGON AND INSULIN SECRETION. Kaneto A, Kajinuma H, Kaneko T, Kosaka K *Metabolism* 27: 901-10, Aug 78 (Eng) DL/78NOV476

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1.D.2 GLUCAGON, PHYSIOLOGY RELATED

1.D.2.1 GLUCAGON, PHYSIOLOGY

[DIABETES MELLITUS, A BIHORMONAL DISEASE] Muller WA *Dtsch Med Wochenschr* 103: 1219-21, 4 Aug 78 (Ger) DL/78NOV275

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1.D.3 GLUCAGON, PHARMACOLOGY RELATED

1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE

THE EFFECT OF GLUCAGON ON CHOLINERGIC RESPONSES OF THE RECTO-SIGMOID. Chowdhury AR, Lorber SH *GEN* 31: 5-10, Jul-Dec 76 (Eng) DL/78NOV339

[EFFECT OF THE INTRAVENOUS ADMINISTRATION OF GLUCAGON ON LEVELS OF SELECTED PARAMETERS OF THE MINERAL METABOLISM (AUTHORS TRANSL)] Andel M, Brodán V, Brodánova M, Kuhn E *Sh Lek* 80: 176-84, Jun 78 (Cze) DL/78NOV570

1.D.3.2 GLUCAGON, PHARMACODYNAMICS

EFFECTS OF CATECHOLAMINES AND GLUCAGON ON GLYCOGEN METABOLISM IN HUMAN POLYMORPHONUCLEAR LEUKOCYTES. Petersen CS, Herlin T, Esmann V *Biochim Biophys Acta* 542: 77-87, 3 Aug 78 (Eng) DL/78NOV217

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THE REGULATION OF LIVER PYRUVATE KINASE BY PHOSPHORYLATION—DEPHOSPHORYLATION. Engstrom L *Curr Top Cell Regul* 13: 28-51, 1978 (Eng) [71 ref.] DL/78NOV269

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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MEMBRANE COOPERATIVE ENZYMES: INTERPLAY OF INSULIN, GLUCAGON AND EPINEPHRINE ON RAT ERYTHROCYTE ACETYLCHOLINESTERASE SYSTEM. De Mellian EM, Massa EM, Morero RD, Farias RN *FEBS Lett* 92: 143-6, 1 Aug 78 (Eng) DL/78NOV307

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THE EFFECT OF GLUCAGON ON CHOLINERGIC RESPONSES OF THE RECTO-SIGMOID. Chowdhury AR, Lorber SH *GEN* 31: 5-10, Jul-Dec 76 (Eng) DL/78NOV339

STIMULATION BY GASTRO-INTESTINAL HORMONES OF CYCLIC ADENOSINE 3:5-MONOPHOSPHATE ACCUMULATION AND INSULIN RELEASE IN ISOLATED PANCREATIC ISLETS OF THE RAT. Okayama T, Masumi M, Kobayashi K, Okuhara T, Miyoshi A *GEN* 31: 241-9, Jan-Mar 77 (Eng) DL/78NOV340

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EFFECT OF GLUCAGON ON GROWTH HORMONE SECRETION IN RATS. Takahara J, Yunoki S, Yamauchi J, Yakushiji W, Hosogi H, Ofuji T *Horm Metab Res* 10: 227-30, May 78 (Eng) DL/78NOV373

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STUDIES OF CAMP METABOLISM IN CULTURED HEPATOMA CELLS: PRESENCE OF FUNCTIONAL ADENYLATE CYCLASE DESPITE LOW CAMP CONTENT AND LACK OF HORMONAL RESPONSIVENESS. Leitch BH, Su YF, Wimalasena J, Harden TK, Wolfe BB, Wicks WD *J Cell Physiol* 96: 215-23, Aug 78 (Eng) DL/78NOV400

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PRIMARY CULTURE OF ADULT RAT LIVER CELLS. III. HORMONAL EFFECTS ON CYTOLOGICAL AND BIOCHEMICAL PROPERTIES OF PRIMARY CULTURED CELLS. Miyazaki M, Watanabe A, Shiraiishi M, Hoshika T, Miyano K, Sato J *Acta Med Okayama* 32: 85-96, Jun 78 (Eng) DL/78NOV618

EFFECTS OF RAPIDLY PHOSPHORYLATED SUBSTRATES FRUCTOSE, SORBITOL, XYLITOL (GLYCEROL): TOXIC OR METABOLIC. Sestoft L *Arch Toxicol [Suppl]* 151-5, 1978 (Eng) DL/78NOV660

1.D.3.3 GLUCAGON, TOXICITY

[TREATMENT OF ACUTE PANCREATITIS BY GLUCAGON. EXPERIMENTAL STUDIES IN DOGS] De Medeiros RR, Leonapdi LS, Comodo H, Fagundes JJ, Mantovani M *GEN* 31: 251-7, Jan-Mar 77 (Por) DL/78NOV341

1.D.4 GLUCAGON, THERAPY RELATED

1.D.4.1 GLUCAGON, DIAGNOSTIC USE

EFFECT OF DOPAMINERGIC BLOCKADE ON THE SECRETION OF GROWTH HORMONE AND PROLACTIN IN MAN. Masala A, Delitala G, Alagna S, Devilla L, Rovasio PP, Lotti G *Metabolism* 27: 921-6, Aug 78 (Eng) DL/78NOV478

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1.D.4.2 GLUCAGON, THERAPEUTIC USE

[TREATMENT OF ACUTE PANCREATITIS BY GLUCAGON. EXPERIMENTAL STUDIES IN DOGS] De Medeiros RR, Leonapdi LS, Comodo H, Fagundes JJ, Mantovani M *GEN* 31: 251-7, Jan-Mar 77 (Por) DL/78NOV341

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

1.E.1 BLOOD SUGAR

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CARBON BALANCE STUDIES WITH VARIOUS SUBSTRATES IN HUMAN ERYTHROCYTES. Quadeflieg KH, Brand K *Acta Biol Med Ger* 36: 639-43, 1977 (Eng) *DL/78NOV161

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1.E.4.7 GLYCOSURIA, METABOLISM

THE EFFECT OF SPONTANEOUS DIABETES MELLITUS ON FATTY ACID OXIDATION, BETA-HYDROXYBUTYRATE DEHYDROGENASE ACTIVITY AND RESPIRATORY COUPLING OF HEPATIC MITOCHONDRIA IN THE GUINEA-PIG (CAVIA PORCELLUS). Nevalainen TO, White WJ, Lang CM, Munger BL *Clin Exp Pharmacol Physiol* 5: 215-22, May-Jun 78 (Eng) DL/78NOV250

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[DIABETES SCREENING (LETTER)] Mehnert H *Dtsch Med Wochenschr* 103: 1260, 11 Aug 78 (Ger) DL/78NOV279

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1.E.6 HYPOGLYCEMIA

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1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED

EVIDENCE AGAINST H⁺ AND K⁺ AS MAIN FACTORS FOR THE CONTROL OF CEREBRAL BLOOD FLOW: A MICROELECTRODE STUDY. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *Ciba Found Symp* 313-37, Mar 78 (Eng) DL/78NOV272

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1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY

1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLGY

1.F.10.2.4 ALLOXAN DIABETES, METABOLISM

1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY

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SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

2.A ENDOCRINE PANCREAS

2.A.1 ISLETS (SEE SEC. 1.A)

2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

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2.F.3.3.1 CORPUS LUTEUM HORMONES

2.F.3.3.2 PROGESTATIONAL HORMONES

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ACTH

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OGTT

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ADULT; AGE FACTORS; BLOOD SUGAR (analysis); CHRONIC DISEASE; DIABETES MELLITUS (etiology, physiopathology); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (secretion); MALE; MIDDLE AGE; TIME FACTORS; TOLBUTAMIDE (diagnostic use).

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ADULT; BLOOD SUGAR (analysis); CLINICAL RESEARCH; COMPARATIVE STUDY; DIABETES MELLITUS (etiology, familial & genetic); ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN RESISTANCE; INSULIN (secretion); MIDDLE AGE; PREDIABETIC STATE (etiology); TIME FACTORS; TOLBUTAMIDE (diagnostic use).

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ALCOHOL, METHYL (poisoning); BLINDNESS (chemically induced, therapy); DIABETIC RETINOPATHY (therapy); ENGLISH ABSTRACT; EYE DISEASES (therapy); EYE INJURIES (therapy); GLAUCOMA (therapy); HEMORRHAGE (therapy); HUMAN; HYPERBARIC OXYGENATION (instrumentation); OPTIC ATROPHY (therapy).

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ANIMAL; CEREBRAL CORTEX (enzymology); ENZYME ACTIVATION; FATTY ACIDS, UNSATURATED (pharmacodynamics); GUANYL CYCLASE (metabolism); IN VITRO; LINOIC ACIDS (pharmacodynamics); ORGAN SPECIFICITY; RATS; SYNAPTIC MEMBRANES (enzymology).

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ADULT; BLOOD SUGAR (metabolism); CHOLESTEROL (blood); ENGLISH ABSTRACT; FEMALE; FOLLOW-UP STUDIES; HEMORRHAGE, POSTPARTUM (blood); HUMAN; HYDROCORTISONE (blood); HYPOPIUITARISM (occurrence); JAPAN; MIDDLE AGE; PREGNANCY; SHEEHAN'S SYNDROME (blood, occurrence); THYROXINE (blood).

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ADOLESCENCE; ADULT; AGED; DIABETIC COMA (drug therapy); DRUG ADMINISTRATION SCHEDULE; FEMALE; HUMAN; INSULIN (administration & dosage, therapeutic use); MALE.

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ANIMAL; BIOLOGICAL TRANSPORT; BLOOD SUGAR (analysis); FASTING; FEMALE; GLUCOSE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (metabolism); PERFUSION; PHOSPHATES (metabolism); PHOSPHORUS RADIOISOTOPES (diagnostic use); RATS; U.S. GOVT SUPPORTED, N.I.H.).

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AMPHETAMINES (pharmacodynamics); ANIMAL; ANOXIA (physiopathology); BICUCULLINE; BRAIN (blood supply); CEREBROVASCULAR CIRCULATION (drug effects); CEREBROVASCULAR DISORDERS (physiopathology); CONVULSIONS (chemically induced, physiopathology); EXTRACELLULAR SPACE; HYDROGEN (pharmacodynamics); HYDROGEN-ION CONCENTRATION; HYPEREMIA (physiopathology); HYPOGLYCEMIA (chemically induced, physiopathology); INSULIN; MICROELECTRODES; POTASSIUM (physiology); RATS.

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ADENOSINE DIPHOSPHATE (pharmacodynamics); ANIMAL; ELECTRON TRANSPORT (drug effects); KINETICS; MEMBRANE POTENTIALS (drug effects); MITOCHONDRIA, LIVER (drug effects, physiology); OXYGEN CONSUMPTION (drug effects); PROTONS; RATES; THERMODYNAMICS; UNCOUPLING AGENTS (pharmacodynamics).

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ANIMAL; CATS; DOSE-RESPONSE RELATIONSHIP, DRUG; GASTRIC JUICE (secretion); HISTAMINE (pharmacodynamics); INSULIN (pharmacodynamics); PENTAGASTRIN (pharmacodynamics); PEPSIN (secretion); PROSTAGLANDINS E (pharmacodynamics); PROSTAGLANDINS F (pharmacodynamics); SECRETORY RATE (drug effects); TACHYPHYLAXIS.

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ANIMAL; DIABETES MELLITUS (metabolism); DIABETES MELLITUS, EXPERIMENTAL (metabolism); FASTING; GLUCOSE (pharmacodynamics); LAPAROTOMY; LIVER (drug effects, metabolism); RATS; THYROXINE (metabolism, pharmacodynamics); TRIIODOTHYRONINE (metabolism, pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H.].

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ADOLESCENCE; ADULT; AGED; DIABETIC DIET; DIET, REDUCING; DRUG THERAPY, COMBINATION; FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); INSULIN (therapeutic use); MALE; MIDDLE AGE; OBESITY IN DIABETES (diet therapy); REMISSION.

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ADIPOSE TISSUE (cytology, radiation effects); ANIMAL; BONE MARROW (cytology, radiation effects); CELL NUMBER (drug effects, radiation effects); ENGLISH ABSTRACT; INSULIN (pharmacodynamics); RATS.

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BARIUM SULFATE (pharmacodynamics); BIOLOGICAL TRANSPORT (drug effects); CALCIUM PHOSPHATES (pharmacodynamics); CELL DIVISION (drug effects); CELL LINE; DEOXY SUGARS (metabolism); DEOXYGLUCOSE (metabolism); METHYLGLUCOSIDES (metabolism); PRECIPITATION; PYROPHOSPHATES (pharmacodynamics); THYMIDINE (metabolism); U.S. GOVT SUPPORTED, N.I.H.].

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ANIMAL; GLUCAGON (pharmacodynamics); INTESTINES (drug effects, metabolism); LYMPH (drug effects); MALE; PROTEINS (metabolism); RATS.
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ANIMAL; BIOLOGICAL TRANSPORT (drug effects); CHOLECYSTOKININ (pharmacodynamics); GLUCAGON (pharmacodynamics); INTESTINES (drug effects); LYMPH (drug effects, physiology); MALE; PROTEINS (metabolism); RATS.

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AMINO ACIDS (pharmacodynamics); ANIMAL; CAFFEINE (pharmacodynamics); EPINEPHRINE (pharmacodynamics); FEMALE; FETUS (metabolism); GLUCAGON (metabolism); GLUCOSE (metabolism); INSULIN (metabolism); LIVER GLYCOGEN (metabolism); PANCREAS (drug effects, metabolism); PREGNANCY; SHEEP (metabolism).

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ALGAE, BLUE-GREEN (drug effects, metabolism); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); COMPARATIVE STUDY; DEOXYGLUCOSE (pharmacodynamics); GLUCOSE (metabolism); KINETICS; METHYLLGLUCOSIDES (metabolism); METHYLLGLUCOSIDES (metabolism); SPECIES SPECIFICITY; STRUCTURE-ACTIVITY RELATIONSHIP.

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THE EFFECT OF CALCIUM DOBESILATE ON NONPROLIFERATIVE DIABETIC RETINOPATHY: A CONTROLLED STUDY. Stamper RL, Smith ME, Aronson SB, Cavender JC, Cleasby GW, Fung WE, Becker B *Ophthalmology (Rochester)* 85: 594-606, Jun 78 (Eng) DL/78NOV502

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ANIMAL; COMPARATIVE STUDY; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (metabolism); GLYCOGEN (biosynthesis); INSULIN RESISTANCE; INSULIN (pharmacodynamics); LACTATES (metabolism); MALE; MUSCLES (metabolism); OBESITY (metabolism); RATS; STARVATION; U.S. GOVT SUPPORTED, N.I.H.).

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BLOOD SUGAR; CAFFEINE (pharmacodynamics); COFFEE; HUMAN.

Beeri A

[THE USE OF PERORAL HYPOGLYCEMIC AGENTS: REASSESSMENT] Beeri A, Bar-On H, Nelsen L *Harefuah* 94: 300-1, 1 May 78 (Heb) DL/78NOV352

ADMINISTRATION, ORAL; HUMAN; HYPOGLYCEMIC AGENTS (administration & dosage, therapeutic use).

Beermann B

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AGED; ANTIHYPERTENSIVE AGENTS; BLOOD PRESSURE (drug effects); CREATININE (metabolism); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYDROCHLOROTHIAZIDE (administration & dosage, blood, pharmacodynamics); HYPERTENSION (physiopathology); MALE; MIDDLE AGE; TIME FACTORS; URIC ACID (blood).

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DIABETES MELLITUS (immunology); HUMAN; KIDNEY (transplantation); LEUKOCYTE CULTURE TEST, MIXED; PROGNOSIS; TRANSPLANTATION, ALLOGENEIC (transplantation); U.S. GOVT SUPPORTED, N.I.H.).

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ADULT; CHILD; DIABETES MELLITUS, JUVENILE (therapy); FEMALE; HUMAN; MALE; PARENTS (education); PATIENTS (education).

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ADENOSINE TRIPHOSPHATE (metabolism); CORONARY DISEASE (metabolism); ENERGY METABOLISM; ENGLISH ABSTRACT; GLUCOSE (metabolism); GLYCOLYSIS; HEART (physiopathology); INSULIN (metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; POTASSIUM (metabolism).

Belikova FS

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CELLULOSE (therapeutic use); DIABETES MELLITUS (etiology, prevention & control); DIETARY FIBER (therapeutic use); HUMAN.

BelozeroVA LN

[EFFECT OF EXERTION AND A LOW-CALORIE DIET ON INDICES OF CHOLESTEROL METABOLISM AND

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ERYTHROCYTE MEMBRANE PERMEABILITY IN OBESITY] Loiko VI, Parnov BS, Kolmakov VN, Bashmakov VP, Belozero LN *Ter Arkh* 49: 116-8, 1977 (Rus) *DL/78NOV152

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[EFFECTS OF EXPERIMENTAL SURGICAL STIMULATION ON THE ACID-BASE EQUILIBRIUM IN ANESTHETIZED RATS LACKING ADRENAL MEDULLA] Quatrini U, Benigno A, Orlando F *Boll Soc Ital Biol Sper* 53: 8-14, 30 Jan 77 (Ita) *DL/78NOV1

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ANIMAL; BLOOD SUGAR (metabolism); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (blood); INSULIN (blood); KETONE BODIES (blood); LIVER GLYCOGEN (metabolism); LIVER (drug effects, metabolism); NICOTINIC ACIDS (pharmacodynamics); RATS.

Bennett PH

LIPOPROTEIN COMPOSITION IN DIABETES MELLITUS. Howard BV, Savage PJ, Bennion LJ, Bennett PH *Atherosclerosis* 30: 153-62, Jun 78 (Eng) DL/78NOV671

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CHEMISTRY; KINETICS; LIPIDS; MEMBRANES, ARTIFICIAL; NITROBENZENES; STEROLS; SURFACE PROPERTIES; TETRAPHENYLBORATE; VALINOMYCIN (analogs & derivatives).

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ACID-BASE EQUILIBRIUM; BLOOD SUGAR (analysis); DIETARY FATS (metabolism); ENGLISH ABSTRACT; FECES (analysis); HUMAN; INFANT NUTRITION; INFANT, NEWBORN; INFANT, PREMATURE; INTESTINAL ABSORPTION; LIPIDS (analysis); TRIGLYCERIDES.

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CURRENT STATUS OF HUMAN PLACENTAL LACTOGEN. Hobbins JC, Berkowitz RL *Clin Obstet Gynecol* 21: 363-73, Jun 78 (Eng) DL/78NOV252

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CELL LINE; CELL SEPARATION (methods); CULTURE MEDIA; DIHYDROXYACETONE (metabolism); GLUCONEOGENESIS; GLUCOSE (metabolism); HEPATOMA (metabolism); NEOPLASMS, EXPERIMENTAL (metabolism); OXALOACETATES (metabolism).
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ALCOHOL OXIDOREDUCTASES (metabolism); CELL LINE; CULTURE MEDIA; FRUCTOSE DIPHOSPHATE ALDOLASE (metabolism); GLUCONEOGENESIS; HEPATOMA (enzymology); HEXOSE DIPHOSPHATASE (metabolism); HYBRID CELLS (enzymology); KARYOTYPING; OXYGEN CONSUMPTION; PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PHOSPHOTRANSFERASES, ATP (metabolism); SELECTION (GENETICS) (secretion).

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ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (metabolism); ENGLISH ABSTRACT; FEMALE; HALF-LIFE; HUMAN; HYDROCORTISONE (metabolism); MALE; METABOLIC CLEARANCE RATE; MIDDLE AGE; 17-HYDROXYCORTICOSTEROIDS (urine).

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ADRENAL GLANDS (drug effects, metabolism); ANIMAL; ANTI-INFLAMMATORY AGENTS, TOPICAL (pharmacodynamics); BLOOD SUGAR (metabolism); CALCIUM (urine); CHOLESTEROL (metabolism); CORTICOSTERONE (metabolism); FEMALE; LIVER GLYCOGEN (metabolism); MALE; POTASSIUM (urine); PREGNADIENES (pharmacodynamics); PROTEINS (metabolism); RATS; SODIUM (urine).

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BLOOD SUGAR (biosynthesis); BODY WEIGHT; BRAIN (anatomy & histology); CENTRAL NERVOUS SYSTEM (metabolism); CHILD; CHILD, PRESCHOOL; CHROMATOGRAPHY, GAS; DEUTERIUM; GLUCOSE (biosynthesis); HUMAN; INFANT; INFANT, NEWBORN; INFANT, PREMATURE; LIVER (metabolism); SPECTRUM ANALYSIS, MASS; U.S. GOVT SUPPORTED, N.I.H. J.

Bilkova B

EFFECT OF PHYSICAL LOAD ON TOTAL PLASMA CATECHOLAMINES, DOPAMINE, BETA-HYDROXYLASE, CYCLIC AMP, FREE FATTY ACIDS AND BLOOD SUGAR IN HEALTHY SUBJECTS. Rysanek K, Prikrýl P, Kunovska V, Malinowska V, Tovarek J, Matejkova J, Bilkova B, Vojtkova J *Acta Nerv Super (Praha)* 19: 249-50, 1977 (Eng) *DL/78NOV165

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STUDIES ON ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT. RELATIONSHIP BETWEEN ALPHA-ADRENERGIC STIMULATION OF CALCIUM EFFLUX AND ACTIVATION OF PHOSPHORYLASE IN ISOLATED RAT LIVER

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A-23187 (pharmacodynamics); ADRENERGIC ALPHA RECEPTOR AGONISTS (pharmacodynamics); ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CALCIUM (metabolism); EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); GLUCOSE (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); IN VITRO; KINETICS; LIVER (drug effects, metabolism); PHENYLEPHRINE (pharmacodynamics); RATS; U.S. GOVT SUPPORTED, N.I.H. ; VASOPRESSIN (pharmacodynamics).

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ANIMAL; BLOOD SUGAR (metabolism); DIETARY CARBOHYDRATES (administration & dosage); ENGLISH ABSTRACT; FEEDING PATTERNS; GLUCOSE (administration & dosage, diagnostic use); HYPERGLYCEMIA (etiology); HYPERINSULINISM (etiology); INSULIN (blood); MALE; RATS; VITAMIN A DEFICIENCY (complications, metabolism).

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ADULT; AGED; ATROPHY; CORNEAL OPACITY (etiology); DIABETIC RETINOPATHY (surgery); EYE (pathology); FEMALE; FOLLOW-UP STUDIES; GLAUCOMA (etiology); HEMORRHAGE (etiology); HUMAN; MALE; MIDDLE AGE; POSTOPERATIVE COMPLICATIONS (poisoning); RETINAL DETACHMENT (etiology); U.S. GOVT SUPPORTED, N.I.H. ; U.S. GOVT SUPPORTED, NON-N.I.H. ; VISUAL ACUITY; VITREOUS BODY (surgery).

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ADULT; AGED; CAUCASOID RACE; DIABETES MELLITUS (mortality); FEMALE; HUMAN; INDUSTRY; LOUISIANA; LUNG NEOPLASMS (mortality); MALE; MIDDLE AGE; MISSISSIPPI; NEGROID RACE; PANCREATIC NEOPLASMS (etiology, mortality); SEX FACTORS; SMOKING (complications); UNITED STATES; URBAN POPULATION.

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ADULT; AGED; BONE DISEASES (etiology); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; EXOSTOSES (etiology); FEMALE; HUMAN; HYPERTROPHY; MALE; MIDDLE AGE; OSTEOLYSIS (etiology); OSTEOPOROSIS (etiology).

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SCREENING; GLUCOSE (metabolism); HUMAN; MALTOSE (administration & dosage, metabolism); PARENTERAL FEEDING; RATS; TIME FACTORS.

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ADULT; CHLORIDES (analysis); DIBENZAZEPINES (pharmacodynamics); FOOD; GASTRIC JUICE (analysis, secretion); GASTRINS (blood); HUMAN; HYDROGEN-ION CONCENTRATION (physiology); INSULIN (pharmacodynamics); INTRINSIC FACTOR (analysis); MALE; PENTAGASTRIN (pharmacodynamics); POTASSIUM (analysis); SECRETORY RATE (drug effects); SODIUM (analysis); TRIMIPRAMINE (pharmacodynamics).

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OBEISY (blood); PROTEIN-CALORIE MALNUTRITION (complications); PUBERTY; REPRODUCTION; REVIEW; SOMATOTROPIN (blood); STERILITY, FEMALE (etiology); THYROID HORMONES (blood); VITAMIN B 12 DEFICIENCY (complications); ZINC (deficiency).

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ANTERIOR (secretion); PROLACTIN (secretion); PROPYLAMINES (pharmacodynamics); RATS; RECEPTORS, ADRENERGIC (physiology); RECEPTORS, ADRENERGIC, ALPHA (physiology); RECEPTORS, DOPAMINE (physiology); SEROTONIN (physiology); SOMATOTROPIN (secretion); STIMULATION, CHEMICAL; SYMPATHOLYTICS (pharmacodynamics).

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Daniele E

[BEHAVIOR OF BLOOD SUGAR AND INSULIN IN DIABETICS AT THE SUSPENSION OF GLIBENCLAMIDE THERAPY] Pitucco G, Caputo V, Santucci A, Daniele E, De Mattia G, De Angelis A. *Clin Ter* 85: 550-8, 30 Jun 78 (Ita) DL/78NOV257

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De Palo C

SPONTANEOUS FASTING HYPOGLYCEMIA: BASAL LEVELS OF PLASMA FREE FATTY ACIDS AND GLYCEROL, BLOOD KETONE BODIES, SERUM CHOLESTEROL AND PLASMA GROWTH HORMONE. Federspil G, De Palo C, Boninsegna A, Zago E, Zaccaria M, Scandellari C *Diabete Metab* 4: 35-8, Mar 78 (Eng) DL/78NOV317

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AGE FACTORS; COMPARATIVE STUDY; DIABETES MELLITUS (diagnosis, etiology, mortality); DIABETES MELLITUS, JUVENILE (mortality); DIABETIC ANGIOPATHIES (etiology); DIABETIC NEPHROPATHIES (etiology); DIABETIC RETINOPATHY (etiology); FEMALE; FOLLOW-UP STUDIES; HUMAN; INSULIN (therapeutic use); MALE; MYOCARDIAL INFARCT (etiology); PROGNOSIS; SEX FACTORS.

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AGE FACTORS; BLOOD PRESSURE; BODY WEIGHT; COMPARATIVE STUDY; DIABETES MELLITUS (mortality); DIABETES MELLITUS, JUVENILE (mortality); FEMALE; FOLLOW-UP STUDIES; HUMAN; INSULIN (therapeutic use); MALE; PROGNOSIS.

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GLUCOSE INTOLERANCE IN UREMIA. QUANTIFICATION OF PANCREATIC BETA CELL SENSITIVITY TO GLUCOSE AND TISSUE SENSITIVITY TO INSULIN. DeFronzo RA, Tobin JD, Rowe JW, Andres R *J Clin Invest* 62: 425-35, Aug 78 (Eng) DL/78NOV406

ADMINISTRATION, ORAL; ADULT; FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (administration & dosage, metabolism, pharmacodynamics); HEMODIALYSIS; HUMAN; INFUSIONS, PARENTERAL; INSULIN (blood, pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, metabolism); MALE; MIDDLE AGE; U.S. GOVT SUPPORTED, N.I.H.; UREMIA (metabolism).

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ADULT; ARGININE (diagnostic use); AUTOANTIBODIES; CHILD; FEMALE; GLUCAGON (secretion); HUMAN; ISLANDS OF LANGERHANS (immunology); MALE.

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MEMBRANE AND INTRACELLULAR HYDROLYSIS OF PEPTIDES: DIFFERENTIATION, ROLE AND INTERRELATIONS WITH TRANSPORT. Ugolev AM, Timofeeva NM, Smirnova LF, Delay P, Gruzdkov AA, Iezuitova NN, Mityushova NM, Roshchina GM, Gurman EG, Gusev VM, Tsvetkova VA, Scherbakov GG *Ciba Found Symp* 221-43, 1977 (Eng) [56 ref.] *DL/78NOV64

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[PROTEIN SAVING IN THE EARLY POSTOPERATIVE PERIOD: COMPARATIVE SIGNIFICANCE OF EXCLUSIVE PARENTERAL NITROGEN FEEDING AND TOTAL PARENTERAL FEEDING] Boulletreau P, Delafosse B, Flandrois C *Anesth Analg (Paris)* 35: 41-53, Jan-Feb 78 (Fre) DL/78NOV641

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EFFECT OF DOPAMINERGIC BLOCKADE ON THE SECRETION OF GROWTH HORMONE AND PROLACTIN IN MAN. Masala A, Delitala G, Alagna S, Devilla L, Rovasio PP, Lotti G *Metabolism* 27: 921-6, Aug 78 (Eng) DL/78NOV478

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ADULT; BIRTH WEIGHT; CARCINOEMBRYONIC ANTIGEN (analysis); DIABETES MELLITUS (familial & genetic); FAMILY CHARACTERISTICS; FEMALE; FETAL BLOOD (immunology); HUMAN; INFANT, NEWBORN; MATERNAL AGE; MATERNAL-FETAL EXCHANGE; NEOPLASMS (familial & genetic, immunology); PREGNANCY; SMOKING.

Department of Pediatrics, University of Ulm.

INSULIN SECRETION IN GROWTH HORMONE-DEFICIENT CHILDREN AND THE EFFECT OF THE SULFONYLUREA DRUG GLIBENCLAMIDE ON LINEAR GROWTH. Department of Pediatrics, University of Ulm. *Eur J Pediatr* 128: 41-8, 22 May 78 (Eng) DL/78NOV297

ADOLESCENCE; CHILD; CHILD, PRESCHOOL; FEMALE; GLIBENCLAMIDE (pharmacodynamics, therapeutic use); GROWTH DISORDERS (drug therapy); GROWTH (drug effects); HUMAN; INSULIN (secretion); MALE; SOMATOTROPIN (deficiency, therapeutic use); TIME FACTORS.

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[DIABETIC GLOMERULOSCLEROSIS] Dequiedt P *Lille Med* 23: 342-5, May 78 (Fre) DL/78NOV462
DIABETIC NEPHROPATHIES (diagnosis, physiopathology); DIAGNOSIS, DIFFERENTIAL; HUMAN; KIDNEY GLOMERULUS (physiopathology).

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AMANITINS (pharmacodynamics, poisoning); ANIMAL; CELL NUCLEUS (ultrastructure); GLYCOGEN (metabolism); ISLANDS OF LANGERHANS (drug effects, ultrastructure); MALE; MICE; MICROSCOPY, ELECTRON; NECROSIS.

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ADULT; AGED; CHRONIC DISEASE; COMPARATIVE STUDY; CONJUNCTIVA (blood supply); DIABETES MELLITUS (drug therapy, physiopathology); DIABETIC ANGIOPATHIES (physiopathology); FEMALE; HUMAN; MALE; MICROCIRCULATION (physiopathology); MIDDLE AGE; REGIONAL BLOOD FLOW.

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BLOOD DONORS; CIRCULAR DICHROISM; DIABETES MELLITUS (blood, metabolism); ELECTROPHORESIS, POLYACRYLAMIDE GEL (methods); ENGLISH ABSTRACT; HUMAN; IMMUNOELECTROPHORESIS (methods); INSULIN (blood, metabolism);

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DIABETIC NEUROPATHIES (physiopathology, radiography); DIAGNOSIS, DIFFERENTIAL; FEMALE; GASTRIC EMPTYING; HUMAN; MALE; STOMACH DISEASES (etiology, physiopathology, radiography); STOMACH (physiopathology, radiography).

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ADENOSINE TRIPHOSPHATE (metabolism); ADOLESCENCE; ADULT; ANIMAL; CHILD; CHILD, PRESCHOOL; GLUCAGON (pharmacodynamics); GLUCOSEPHOSPHATASE DEFICIENCY (metabolism); HUMAN; INFANT; LIVER (drug effects, metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H. ; URIC ACID (blood, urine).

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GERMANY, WEST; HUMAN; HYPERLIPEMIA (etiology); LIPIDS (metabolism); MALE; NORMAL VALUES; NUTRITION; RETROSPECTIVE STUDIES; REVIEW; SEX FACTORS.

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BLOOD SUGAR (metabolism); BRAIN DISEASES (metabolism); BRAIN NEOPLASMS (physiopathology); CENTRAL NERVOUS SYSTEM (physiology); GLUCAGON (metabolism); HOMEOSTASIS; HUMAN; HYPOTHALAMUS (physiology); INSULIN (metabolism).

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[GENERAL ADAPTATION SYNDROME (SELYE) IN THE CALF. 7. RELATIONSHIP BETWEEN THE PLASMA 11-HYDROXYCORTICOSTEROID LEVEL AND GLUCOSE METABOLISM UNDER PHYSIOLOGICAL CONDITIONS AND FOLLOWING STRESSOR ACTION] *Hartmann H, Gunther H, Manoi I, Meyer H, Popescu V, Steinbach G, Vior E Arch Exp Veterinarmed* 31: 771-88, 1977 (Ger) *DL/78NOV199

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AMINO ACIDS (analysis); ANIMAL; BIOLOGICAL ASSAY; CATTLE; CIRCULAR DICHROISM; DOSE-RESPONSE RELATIONSHIP, DRUG; MOLECULAR WEIGHT; PEPTIDE FRAGMENTS

(pharmacodynamics); PROTEIN BINDING; PROTEIN CONFORMATION; SOMATOTROPIN (pharmacodynamics); SPECTROMETRY, FLUORESCENCE; TIBIA (drug effects); TRYPSIN; U.S. GOVT SUPPORTED, N.I.H. .

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ACETOACETATES (blood); ANIMAL; BLOOD SUGAR; DIABETES MELLITUS, EXPERIMENTAL; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GOATS; INSULIN (deficiency, pharmacodynamics); LACTATION (drug effects); LACTOSE (secretion); MAMMAE; PREGNANCY.

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LIPOPROTEIN COMPOSITION IN DIABETES MELLITUS. Howard BV, Savage PJ, Bennion LJ, Bennett PH *Atherosclerosis* 30: 153-62, Jun 78 (Eng) DL/78NOV671
ADULT; BODY WEIGHT; CHOLESTEROL (blood); DIABETES MELLITUS (blood, enzymology); FEMALE; HUMAN; LECITHIN ACYLTRANSFERASE (blood); LIPOPROTEINS (blood); LIPOPROTEINS, HDL (blood); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); TRIGLYCERIDES (blood); U.S. GOVT SUPPORTED, N.I.H.).

Howard L

A COMPARISON OF ADMINISTERING PROTEIN ALONE AND PROTEIN PLUS GLUCOSE ON NITROGEN BALANCE. Howard L, Dobs A, Chodos R, Chu R, Loludice T *Am J Clin Nutr* 31: 226-9, Feb 78 (Eng) *DL/78NOV177
ADULT; AGED; AMINO ACIDS (therapeutic use); COMPARATIVE STUDY; DIETARY CARBOHYDRATES; DIETARY PROTEINS; FEMALE; GLUCOSE; HUMAN; MALE; MIDDLE AGE; NITROGEN (metabolism); NUTRITION DISORDERS (metabolism); OBESITY (metabolism); OVALBUMIN; U.S. GOVT SUPPORTED, N.I.H.).

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BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CHLORIDES (pharmacodynamics); CHLOROPLASTS (drug effects, metabolism, physiology); DARKNESS; HYDROGEN-ION CONCENTRATION (physiology); IN VITRO; KINETICS; MEMBRANE POTENTIALS; OSMOLAR CONCENTRATION; PYRUVATES (metabolism, pharmacodynamics); SULFHYDRYL REAGENTS (pharmacodynamics); TEMPERATURE; U.S. GOVT SUPPORTED, NON-N.I.H.); VALINOMYCIN (pharmacodynamics).

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BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT, ACTIVE; CHLOROPLASTS (metabolism); HYDROGEN-ION CONCENTRATION (physiology); IN VITRO; KINETICS; LIGHT; MEMBRANES (metabolism); PHOSPHATES (metabolism); PHOSPHOENOLPYRUVATE (metabolism); U.S. GOVT SUPPORTED, N.I.H.); U.S. GOVT SUPPORTED, NON-N.I.H.).

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Hudis MM

THE MOUTH; MEDICAL CONSIDERATIONS IN THE CONSTRUCTION AND DESIGN OF ORAL PROSTHESES. Hudis MM *Ann Dent* 37: 45-56, Summer 78 (Eng) DL/78NOV651
AGING; ARTHRITIS (complications); DENTAL PROSTHESIS DESIGN; DENTURE, PARTIAL, FIXED; DENTURE, PARTIAL, REMOVABLE; DIABETES MELLITUS (complications); HEART DISEASES (complications); MOUTH DISEASES (etiology); MOUTH (anatomy & histology); PERIODONTIUM (anatomy & histology); TOOTH (anatomy & histology).

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EFFECT OF GASTROINTESTINAL HORMONE INFUSIONS OF LOWER OESOPHAGEAL COMPETENCE OF RHESUS MONKEYS. Moosa AR, Hall AW, Hughes RG, Moraldi A, Moosa DE, Skinner DB *Br J Surg* 65: 499-504, Jul 78 (Eng) DL/78NOV224

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A COMPARISON OF PROCEDURES TO DETERMINE FREE FATTY ACIDS IN RAT HEART. Kramer JM, Hulan HW *J Lipid Res* 19: 103-6, Jan 78 (Eng) *DL/78NOV101

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RABBIT PLACENTAL CLEARING-FACTOR LIPASE AND TRANSFER TO THE FOETUS OF FATTY ACIDS DERIVED FROM TRIGLYCERIDES INJECTED INTO THE MOTHER. Elphick MC, Hull D *J Physiol (Lond)* 273: 475-87, Dec 77 (Eng) *DL/78NOV107

Hulsmann WC

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[DIET AND INSULIN RESISTANCE] Hulsmann WC *Ned Tijdschr Geneesk* 122: 1133-6, 5 Aug 78 (Dut) DL/78NOV494

ADULT; CELL MEMBRANE (metabolism); DIABETES MELLITUS (diet therapy, physiopathology); DIET, REDUCING; FATTY ACIDS, UNSATURATED (metabolism); GLUCAGON (metabolism); HUMAN; INSULIN RESISTANCE; INSULIN (metabolism); MIDDLE AGE; OBESITY IN DIABETES (diet therapy); RECEPTORS, INSULIN (metabolism).

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DETERMINATION OF THE CONCENTRATION OF A SUBSTRATE UNDERGOING A FIRST-ORDER REACTION WITHOUT THE USE OF STANDARDS. Harris RC, Hultman E *Anal Biochem* 83: 767-72, Dec 77 (Eng) *DL/78NOV194

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ADOLESCENCE; ANTIGENS; ARGININE (diagnostic use); BLOOD SUGAR (analysis); CHILD; CHILD, PRESCHOOL; CORTICOTROPIN (secretion); FEMALE; GLUCAGON (secretion); GLUCOSE TOLERANCE TEST; HORMONES, SYNTHETIC (diagnostic use); HUMAN; INFANT; INSULIN RESISTANCE; INSULIN (diagnostic use, secretion); LIPIDS (metabolism); LIPODYSTROPHY (congenital, familial & genetic, metabolism); MALE; SOMATOTROPIN (secretion); TOLBUTAMIDE (diagnostic use); U.S. GOVT SUPPORTED, NON-N.I.H.).

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ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (enzymology); ENZYME ACTIVATION (drug effects); IN VITRO; MITOCHONDRIA, HEART (enzymology); PROTEIN KINASE (metabolism); PYRUVATE DEHYDROGENASE COMPLEX (antagonists & inhibitors, metabolism); PYRUVATES (pharmacodynamics); RATS; STARVATION (enzymology); U.S. GOVT SUPPORTED, N.I.H.).

Hutton JC

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. METABOLIC EFFECTS OF MENADIOLINE IN ISOLATED ISLETS. Malaise WJ, Hutton JC, Kawazu S, Sener A *Eur J Biochem* 87: 121-30, 1 Jun 78 (Eng) DL/78NOV292

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EFFECT OF INSULIN ON CORONARY VESSEL ADRENERGIC AND CHOLINERGIC REACTIONS. Neshcheret AP, Shurupova EN, Iakusheva LF, Iavorskii LIA, Khomazuk AI *Kardiol*

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[SENSITIVITY OF THE ISOLATED ADIPOSE TISSUE TO INSULIN IN PATIENTS WITH INSULIN-RESISTANT FORM OF DIABETES MELLITUS] Alekseeva GG, Iarovskii IuA *Probl Endokrinol (Mosk)* 24: 3-8, May-Jun 78 (Rus) DL/78NOV533

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ON THE RATE-LIMITING STEP IN THE TRANSFER OF LONG-CHAIN ACYL GROUPS ACROSS THE INNER MEMBRANE OF BROWN ADIPOSE TISSUE MITOCHONDRIA. Normann PT, Ingebretsen OC, Flatmark T *Biochim Biophys Acta* 501: 286-95, 9 Feb 78 (Eng) *DL/78NOV41

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ANESTHESIA; ANIMAL; BLOOD SUGAR (analysis); DOGS; HYPOGLYCEMIA (chemically induced); INJECTIONS, INTRAVENOUS; INSULIN (blood); RIBOSE (administration & dosage, pharmacodynamics); SOMATOTROPIN (blood).

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Jackson RL

CONTROL OF 3-HYDROXY-3-METHYLGLUTARYL-COA REDUCTASE ACTIVITY IN CULTURED HUMAN FIBROBLASTS BY VERY LOW DENSITY LIPOPROTEINS OF SUBJECTS WITH HYPERTRIGLYCE-
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CHROMOSOME ABNORMALITIES (familial & genetic); CHROMOSOMES, HUMAN, 6-12; CORONARY DISEASE (occurrence); DIABETES MELLITUS (classification, familial & genetic); DIABETES MELLITUS, EXPERIMENTAL; DIABETES MELLITUS, JUVENILE (familial & genetic); DIABETIC ANGIOPATHIES (complications); DIABETIC NEUROPATHIES (complications); ETHNIC GROUPS; GENETIC COUNSELING; GERMANY; HISTORY OF MEDICINE, 20TH CENT.; HUMAN; HYPERGLYCEMIA (complications); HL-A ANTIGENS (genetics); INSULIN ANTAGONISTS (metabolism); INSULIN (blood); LIPODYSTROPHY (complications); METABOLISM, INBORN ERRORS (complications); OBESITY IN DIABETES (complications); PANCREAS (pathology); RACIAL STOCKS; REVIEW; SOMATOTROPIN (deficiency); TRIPLETS; TWINS, MONOZYGOTIC; UNITED STATES; VASCULAR DISEASES (occurrence); WERNERS SYNDROME (complications).

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FLUORESCENT LABELING OF HORMONE RECEPTORS IN VIABLE CELLS: PREPARATION AND PROPERTIES OF HIGHLY FLUORESCENT DERIVATIVES OF EPIDERMAL GROWTH FACTOR AND INSULIN. Shechter Y, Schlössinger J, Jacobs S, Chang KJ, Cuatrecasas P *Proc Natl Acad Sci USA* 75: 2135-9, May 78 (Eng) DL/78NOV541

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ANIMAL; FEMALE; GLUCOSE (administration & dosage, pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism); PILOCARPINE (pharmacodynamics); PROINSULIN (biosynthesis); RATS.

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ADENYL CYCLASE (antagonists & inhibitors, blood); BLOOD PLATELETS (enzymology); EPINEPHRINE (pharmacodynamics); GUANOSINE TRIPHOSPHATE (pharmacodynamics); HUMAN; KINETICS; RIBONUCLEOTIDES (pharmacodynamics); STRUCTURE-ACTIVITY RELATIONSHIP.

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ALCOHOL, ETHYL (pharmacodynamics); ANIMAL; BLOOD SUGAR (metabolism); GLUCAGON (blood); GLUCOSE (metabolism); INSULIN (blood); LIVER GLYCOGEN (metabolism); LIVER (metabolism); MALE; RATS.

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BRAIN MONOAMINES IN HUMAN HEPATIC ENCEPHALOPATHY. Jellinger K, Riederer P, Kleiber G, Wuketich S, Kothbauer P *Acta Neuropathol (Berl)* 43: 63-8, 7 Aug 78 (Eng) DL/78NOV613

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[THE DISEASE PATTERN OF THE DIFFUSE, NESIDIOBLASTIC HYPERPLASIA OF THE PANCREATIC ISLETS IN NEWBORN AND INFANTS (AUTHORS TRANSL.) Jeschke R, Romen W, Thanner F, Niggemeyer H *Klin Paediatr* 190: 403-11, Jul 78 (Ger) DL/78NOV449

CASE REPORT; DIAZOIDE (therapeutic use); ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; HYDROXYBUTYRATES (blood); HYPOGLYCEMIA (diagnosis, drug therapy, surgery); INFANT; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (diagnosis); INSULIN (blood); ISLET CELL TUMOR (diagnosis, surgery); MALE; PANCREATIC NEOPLASMS (diagnosis, surgery).

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GASTRIC EMPTYING (drug effects); GASTROINTESTINAL MOTILITY (drug effects); GLUCOSE TOLERANCE TEST; HUMAN; SOMATOTROPIN RELEASE INHIBITING HORMONE (administration & dosage; pharmacodynamics); TIME FACTORS.

Jolin T

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ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (metabolism); INSULIN (pharmacodynamics); IODINE (metabolism, urine); MALE; PROPYLTHIOURACIL (pharmacodynamics); PROTEIN-BOUND IODINE TEST; RATS; THYROID GLAND (metabolism); THYROTROPIN (blood, pharmacodynamics).

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ANIMAL; ANTIVIRAL AGENTS (chemical synthesis); BLOOD SUGAR (metabolism); BODY TEMPERATURE (drug effects); HYPOGLYCEMIC AGENTS (chemical synthesis); MALE; MICE; RATS; THIADIAZOLES (chemical synthesis, pharmacodynamics, therapeutic use); TRICHINOSIS (drug therapy).

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ATTITUDE TO HEALTH; DIABETES MELLITUS (occurrence); DIETARY HABITS; INDIANS, NORTH AMERICAN; MEDICINE, PRIMITIVE; NEW YORK; OBESITY (occurrence).

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BASE SEQUENCE; CODON; COLIPHAGES (genetics); COMPARATIVE STUDY; GLOBIN (genetics); GONADOTROPINS, CHORIONIC (genetics); PLACENTAL LACTOGEN (genetics); PROINSULIN (genetics); PROTEIN PRECURSORS (genetics); RNA, MESSENGER (genetics); RNA, VIRAL (genetics); U.S. GOVT SUPPORTED, NON-N.I.H.).

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DUODENAL ULCER (physiopathology); GASTRIC JUICE (analysis, secretion); HUMAN; INSULIN (diagnostic use); PENTAGASTRIN (diagnostic use); VAGOTOMY (standards).

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ANIMAL; ANOXIA (complications, metabolism, pathology); AORTA (metabolism, pathology); ARTERIES (metabolism); ARTERIOSCLEROSIS (etiology, metabolism, pathology); CARBON

MONOXIDE (blood); CARBOXYHEMOGLOBIN (analysis); CATTLE; CHICKENS; DIET, ATHEROGENIC; DOGS; GLYCOLYSIS; HUMAN; LACTATE DEHYDROGENASE (metabolism); LIPIDS (metabolism); MONKEYS; OXYGEN CONSUMPTION; OXYGEN (blood); RABBITS.

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CNS - ENDOCRINE PANCREAS SYSTEM. IV. EVIDENCE FOR THE EXISTENCE OF A DIRECT HYPOTHALAMIC-VAGAL DESCENDING PATHWAY. Akmayev IG, Kabolova ZA, Rabkina AE *Endokrinologiya* 71: 175-82, Apr 78 (Eng) DL/78NOV285

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[DRUG INTERACTIONS: A THERAPEUTIC PROBLEM] Kahl GF *Internist (Berlin)* 19: 366-74, Jun 78 (Ger) DL/78NOV384

ANALGESICS; ANTIBIOTICS; ANTICOAGULANTS; ANTICONVULSANTS; ANTIFUNGAL AGENTS; ANTINEOPLASTIC AGENTS; ANTITUBERCULAR AGENTS; BLOOD PROTEINS (metabolism); CARDIAC GLYCOSIDES; DIURETICS; DRUG INTERACTIONS; DRUG SYNERGISM; ENZYME INDUCTION (drug effects); HUMAN; HYPNOTICS AND SEDATIVES; HYPOGLYCEMIC AGENTS; MUSCLE RELAXANTS, CENTRAL; PROTEIN BINDING.

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ACETATES (metabolism); ANIMAL; BLOOD SUGAR (analysis); DIABETES MELLITUS, EXPERIMENTAL (metabolism); FATTY ACIDS (metabolism); FEMALE; KETOSIS, DIABETIC (metabolism); LAURATES (metabolism); LIVER (metabolism); METABOLISM; OXIDATION-REDUCTION; PALMITATES (metabolism); RATS; RHESUS MONKEYS; STARVATION (metabolism); SUCCINATES (metabolism); U.S. GOVT SUPPORTED, N.I.H.).

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[LIPOPEROXIDE IN AGING AND LIVER DISEASES (AUTHORS TRANSL)] Abe H, Suematsu T, Kamata T, Matsumura T, Tetsutani T. *Nippon Ronen Igakkai Zasshi* 15: 211-4, May 78 (Jpn) DL/78NOV441

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ADULT; COMPARATIVE STUDY; DIABETES MELLITUS (diagnosis, physiopathology); ENGLISH ABSTRACT; HEAT (diagnostic use); HUMAN; LEG (blood supply); SKIN TEMPERATURE.

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ADULT; CASE REPORT; DIABETIC COMA (blood, drug therapy); FEMALE; GLUCAGON (blood); HUMAN; INFUSIONS, PARENTERAL;

INSULIN (administration & dosage); MALE; MIDDLE AGE.

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ANIMAL; CORTICOSTERONE (physiology); CORTICOTROPIN (secretion); FEEDBACK; FEMALE; HYPOTHALAMO-HYPOPHYSAL SYSTEM (physiopathology); KINETICS; MODELS, BIOLOGICAL; PITUITARY-ADRENAL SYSTEM (physiopathology); RATS; STRESS (physiopathology).

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CORTICOTROPIN RELEASING HORMONE (metabolism); CORTICOTROPIN (physiology); DOPAMINE (metabolism); EPINEPHRINE (metabolism); FEEDBACK; FEMALE; HYPOTHALAMO-HYPOPHYSAL SYSTEM (physiopathology); HYPOTHALAMUS (metabolism); MALE; NOREPINEPHRINE (metabolism); PITUITARY-ADRENAL SYSTEM (physiopathology); RATS; SEROTONIN (metabolism); STRESS (physiopathology).

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ANIMAL; BLOOD SUGAR (metabolism); DOGS; GLUCAGON (blood, secretion); INSULIN (blood, secretion); ISLANDS OF LANGERHANS (drug effects, secretion); PANCREAS (blood supply); PHENTOLAMINE (pharmacodynamics); RECEPTORS, ADRENERGIC, ALPHA (physiology); REGIONAL BLOOD FLOW (drug effects); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

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ADULT; BLOOD SUGAR (analysis); C-PEPTIDE (blood); CHRONIC DISEASE; ENGLISH ABSTRACT; FEMALE; GLUCAGON (blood); HUMAN; KIDNEY DISEASES (metabolism, physiopathology); KIDNEY (physiopathology); KINETICS; MALE; MIDDLE AGE; PANCREATIC HORMONES (metabolism).

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ACTION POTENTIALS; ADRENAL GLANDS (cytology); CALCIUM (metabolism); CELL MEMBRANE PERMEABILITY; CHROMAFFIN SYSTEM (physiology); ENDOCRINE GLANDS (physiology); EXOCYTOSIS; GASTRIC MUCOSA (cytology); ISLANDS OF LANGERHANS (cytology, physiology); NEURONS (physiology); NEUROSECRETORY SYSTEMS (physiology); REVIEW; SODIUM (metabolism).

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A NEW DOUBLE-LABELLING PROCEDURE FOR DETERMINATION OF AMINO ACID COMPOSITION: APPLICATION TO BACTERIORHODOPSIN. Kaplan H, Cheng DC, Oda G, Kates M. *Can J Biochem* 56: 517-20, Jun 78 (Eng) DL/78NOV227

AMINO ACIDS (analysis); BACTERIORHODOPSIN (analysis); CAROTENOIDS (analysis); HALOBACTERIUM (analysis); INSULIN (analysis); METHODS; MURAMIDASE (analysis); TRYPTOPHAN (analysis).

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ANIMAL; ARTHRITIS, ADJUVANT (drug therapy); BACTERIAL INFECTIONS (drug therapy); BEHAVIOR, ANIMAL (drug effects); BLOOD SUGAR (metabolism); BLOOD UREA NITROGEN; BODY WEIGHT (drug effects); ENGLISH ABSTRACT; FEMALE; FLUCORTOLONE (analogs & derivatives, pharmacodynamics, therapeutic use); GLUCOCORTICOIDS, TOPICAL; IMMUNITY (drug effects); LIVER GLYCOGEN (metabolism); MALE; MICE; ORGAN WEIGHT (drug effects); POTASSIUM (metabolism); PREGNADIENDIOLS (pharmacodynamics); RABBITS; RATS; RECEPTORS, STEROID (drug effects); SODIUM (metabolism).

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ADRENAL GLANDS (metabolism); ANIMAL; ARECOLINE (pharmacodynamics); ASCORBIC ACID (metabolism); BLOOD SUGAR (metabolism); CATS; CORONARY CIRCULATION; ENGLISH ABSTRACT; HEART (innervation, physiology); HORMONES (physiology); HYPOTHALAMUS (physiology); MITOCHONDRIA, HEART (metabolism); NEOSTIGMINE (pharmacodynamics); OXIDATIVE PHOSPHORYLATION (drug effects); OXYGEN CONSUMPTION (drug effects); SPINAL CORD (physiology); VAGOTOMY.

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ANIMAL; BLOOD PRESSURE (drug effects); DOGS; ENGLISH ABSTRACT; HEART RATE (drug effects); HEART (drug effects); TOLBUTAMIDE (pharmacodynamics).

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ADULT; CARDIAC OUTPUT (drug effects); ENGLISH ABSTRACT; FEMALE; HEART RATE (drug effects); HEART VENTRICLE (drug effects); HUMAN; MALE; TOLBUTAMIDE (administration & dosage, pharmacodynamics).

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AGE FACTORS; ALANINE AMINOTRANSFERASE (blood); ANIMAL; ANIMALS, LABORATORY; ASPARTATE AMINOTRANSFERASE (blood); BLOOD PROTEINS (analysis); BLOOD SUGAR (analysis); BLOOD UREA NITROGEN; CHOLESTEROL (blood); CREATINE KINASE (blood); DOGS (blood, genetics); FEMALE; IRON (blood); MALE; NORMAL VALUES; SERUM ALBUMIN (analysis); SEX FACTORS; U.S. GOVT SUPPORTED, NON-N.I.H.).

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[THYROID FUNCTION IN DIABETICS TREATED WITH SULFONYLUREA AND BIGUANIDES] Kasperska-Czyzykowska T, Czech W, Sawicki Z, Woy-Wojciechowski J, Zuawnik

W *Pol Arch Med Wewn* 59: 275-83, Mar 78 (Pol) DL/78NOV516

ADULT; BIGUANIDES (pharmacodynamics, therapeutic use); DIABETES MELLITUS (drug therapy); ENGLISH ABSTRACT; GOITER, EXOPHTHALMIC (chemically induced); HUMAN; HYPOGLYCEMIC AGENTS (adverse effects); HYPOTHYROIDISM (chemically induced); MIDDLE AGE; SULFONYLUREA COMPOUNDS (pharmacodynamics, therapeutic use); THYROID GLAND (drug effects).

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ANIMAL; BIRDS (anatomy & histology); COMPARATIVE STUDY; CYTOPLASMIC GRANULES (ultrastructure); ENDOCRINE GLANDS (anatomy & histology, innervation, ultrastructure); INTESTINES (anatomy & histology); ISLANDS OF LANGERHANS (anatomy & histology); NERVE ENDINGS (ultrastructure); PROVENTRICULUS (anatomy & histology).

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[NURSING OF PATIENTS WITH SEQUELAE OF STROKE - A CASE STUDY OF DIABETES MELLITUS, RENAL FAILURE, AND GLAUCOMA] Yamada M, Hoshika H, Nobuhara S, Katayama H *Kango Gijyutsu* 24: 97-105, Jun 78 (Jpn) DL/78NOV445

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METABOLISM OF GLUCOSE VIA PENTOSE PATHWAY [LETTER] Katz J *Am J Physiol* 234: e97-8, Jan 78 (Eng) *DL/78NOV185

GLUCOSE (metabolism); MATHEMATICS; MYOCARDIUM (metabolism); PENTOSEPHOSPHATES (metabolism).

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Kawa A

[H L A (AUTHORS TRANSL.)] Nakazawa M, Kono Y, Kawa A *Horumon To Rinsho* 26: 631-7, Jul 78 (Jpn) DL/78NOV242

Kawanishi K

[INSULIN RECEPTOR ANTIBODIES] Kawanishi K *Horumon To Rinsho* 26: 671-5, Jul 78 (Jpn) DL/78NOV247

AUTOANTIBODIES (analysis); CASE REPORT; DIABETES MELLITUS (immunology); FEMALE; HUMAN; MIDDLE AGE; RECEPTORS, INSULIN (immunology).

Kawano S

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[PHARMACOLOGICAL STUDIES ON BUTYL 6ALPHA-FLUORO-11BETA-HYDROXY-16ALPHA-METHYL-3,20-DIOXO-1,4-PREGNADIEN-21-OATE (FLUCORTIN BUTYLSTER) (AUTHORS TRANSL.)] Kapp JF, Koch H, Topert M, Kessler HJ, Gerhards E *Arzneim Forsch 27: 2191-202, 1977 (Ger)* *DL/78NOV211

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AGED; DIABETES MELLITUS (drug therapy, physiopathology); GUANETHIDINE (therapeutic use); HUMAN; HYPERTENSION (chemically induced, drug therapy); INSULIN (therapeutic use); MIDDLE AGE; OPHTHALMIC SOLUTIONS; PHENYLEPHRINE (adverse effects); RESERPINE (therapeutic use); SYMPATHETIC NERVOUS SYSTEM (drug effects, physiopathology).

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ACIDOSIS, DIABETIC (drug therapy); ADOLESCENCE; ADULT; AGED; BLOOD SUGAR (analysis); CHRONIC DISEASE; ENGLISH ABSTRACT; FEMALE; HUMAN; INFUSIONS, PARENTERAL; INSULIN (administration & dosage); KETOSIS, DIABETIC (drug therapy); MALE; MIDDLE AGE; TIME FACTORS.

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DIABETIC RETINOPATHY (classification); ENGLISH ABSTRACT; HUMAN.

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BLOOD SUGAR (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; FRUCTOSE (diagnostic use, metabolism); GLUCOSE TOLERANCE TEST; GLYCERIN (blood); HUMAN; INSULIN (blood); LACTATES (blood); MALE; PYRUVATES (blood); SORBITOL (diagnostic use); SUCROSE (diagnostic use); TRIGLYCERIDES (blood); URIC ACID (blood).

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ANIMAL; BRAIN STEM (metabolism); BRAIN (metabolism); DIABETES MELLITUS, EXPERIMENTAL (metabolism); FEMALE; HYDROXYINDOLEACETIC ACID (metabolism); RATS; SEROTONIN (metabolism); TRYPTOPHAN (metabolism, pharmacodynamics); U.S. GOVT SUPPORTED, NON-N.I.H.).

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ADENOSINE TRIPHOSPHATASE (metabolism); ADENYL CYCLASE (metabolism); ANIMAL; BLOOD SUGAR (metabolism); CELL MEMBRANE (metabolism); COMPARATIVE STUDY; GLUCAGON (metabolism); INSULIN (metabolism); LIPIDS (blood); LIVER (metabolism); MALE; NUCLEOTIDASES (metabolism); OBESITY (metabolism); RATS; RECEPTORS, HORMONE (metabolism).

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ADENINE NUCLEOTIDES (metabolism); ANIMAL; CALCIUM (metabolism); FEMALE; GLUCOSE (metabolism); GLYCOLYSIS (drug effects); IN VITRO; ISLANDS OF LANGERHANS (drug effects, metabolism); NAD (metabolism); NADP (metabolism); OXIDATION-REDUCTION; PENTOSEPHOSPHATES (metabolism); PROINSULIN (biosynthesis); RATS; VITAMIN K (pharmacodynamics).

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AGED; DIABETES MELLITUS (blood); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; METABOLIC CLEARANCE RATE (drug effects); MIDDLE AGE; PHENFORMIN (pharmacodynamics); TRIGLYCERIDES (blood).

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ADIPOSE TISSUE (metabolism); ANIMAL; AORTA (drug effects, metabolism); CHOLESTEROL (metabolism); CHOLESTEROL, DIETARY (administration & dosage); INTESTINES (metabolism); LIPIDS (metabolism); LIVER (metabolism); LUNG (metabolism); MALE; METFORMIN (pharmacodynamics); MUSCLE, SMOOTH (drug effects, metabolism); RABBITS.

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ISLET-CELL ANTIBODIES IN SPANISH DIABETICS [LETTER] Pujol-Borrell R, Richart C, Martin C, Martinez-Vazquez JM, Bottazzo GF *Lancet* 2: 268-9, 29 Jul 78 (Eng) DL/78NOV458

[HYPOTHYROIDISM, DIABETES AND PLEUROPERICARDITIS WITH ANTITHYROIDAL, ANTI-INSULAR, AND ANTIMYTOCHONDRIAL AND ANTINUCLEAR ANTIBODIES] Richart C, Pujol R, Martin C, Morell F, Martinez-Vazquez JM *Rev Clin Esp* 148: 525-6, 15 Mar 78 (Spa) DL/78NOV558

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PHARYNGEAL COLONIZATION BY GRAM-NEGATIVE BACILLI IN ASPIRATION-PRONE PERSONS. Mackowiak PA, Martin RM,

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STIMULATION BY GASTRO-INTESTINAL HORMONES OF CYCLIC ADENOSINE 3':5'-MONOPHOSPHATE ACCUMULATION AND INSULIN RELEASE IN ISOLATED PANCREATIC ISLETS OF THE RAT. Okayama T, Masumi M, Kobayashi K, Okuhara T, Miyoshi A. *Gen* 31: 241-9, Jan-Mar 77 (Eng) DL/78NOV340

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ADIPOSE TISSUE (metabolism); ANIMAL; CHOLESTEROL ESTERS (blood); COMPARATIVE STUDY; COTTONSEED (metabolism); DIETARY FATS (metabolism); DIETARY PROTEINS (metabolism); FATTY ACIDS (blood, metabolism); INSULIN (blood); LIPIDS (blood); MUSCLES (metabolism); OILS (metabolism); PHOSPHOLIPIDS (blood); SHEEP (metabolism).

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ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (physiopathology); FEMALE; HUMAN; ISLANDS OF LANGERHANS (physiopathology); MALE; MIDDLE AGE; PANCREAS (physiopathology).

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AMINO ACIDS (blood); DIABETES MELLITUS (drug therapy, etiology, physiopathology); GLUCAGON (blood, physiology); HUMAN; INSULIN (physiology, therapeutic use); PANCREATICTOMY.

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THE EFFECT OF SPONTANEOUS DIABETES MELLITUS ON FATTY ACID OXIDATION, BETA-HYDROXYBUTYRATE DEHYDROGENASE ACTIVITY AND RESPIRATORY COUPLING OF HEPATIC MITOCHONDRIA IN THE GUINEA-PIG (CAVIA PORCELLUS). Nevalainen TO, White WJ, Lang CM, Munger BL *Clin Exp Pharmacol Physiol* 5: 215-22, May-Jun 78 (Eng) DL/78NOV250

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ACIDOSIS, DIABETIC (physiopathology); ADULT; AGED; DIABETIC COMA (blood, physiopathology); FEMALE; HUMAN; KETOSIS, DIABETIC (blood, physiopathology); MALE; MIDDLE AGE; PITUITARY GLAND (physiopathology); THYROID GLAND (physiopathology); THYROTROPIN (pharmacodynamics); THYROTROPIN (blood, secretion); THYROXINE (blood); TRIIODOTHYRONINE (blood, secretion).

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AMINO ACIDS (pharmacodynamics); ANIMAL; CELL LINE; CULTURE MEDIA; DEXAMETHASONE (pharmacodynamics); GLUCOSE (pharmacodynamics); HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); MAMMARY CANCER VIRUS (drug effects, growth & development); MICE, MICE, INBRED C3H; REVERSE TRANSCRIPTASE (analysis); U.S. GOVT SUPPORTED, N.I.H.; VIRUS CULTIVATION.

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ADULT; CHRONIC DISEASE; COMPARATIVE STUDY; DIABETES MELLITUS (etiology, metabolism); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MALE; MIDDLE AGE; PANCREATITIS (complications, metabolism).

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ADULT; CAUCASOID RACE; CHILD; DIABETES MELLITUS, JUVENILE (immunology); HUMAN; HL-A ANTIGENS (analysis); JAPAN; MONGOLOID RACE.

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ADENYL CYCLASE (antagonists & inhibitors, metabolism); ANIMAL; EGTA (pharmacodynamics); FEMALE; GUANINE NUCLEOTIDES (pharmacodynamics); GUANOSINE TRIPHOSPHATE (analogs & derivatives); GUANYLYL IMIDODIPHOSPHATE (pharmacodynamics); GUINEA PIGS; ISOPROTERENOL (pharmacodynamics); MYOCARDIUM (enzymology); SARCOLEMA (enzymology); STIMULATION, CHEMICAL.

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ANIMAL; CHROMATOGRAPHY, HIGH SPEED LIQUID (methods); HUMAN; MICROCHEMISTRY; RABBITS; TIME FACTORS; TOLBUTAMIDE (analogs & derivatives, blood).

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AGED; BLOOD SUGAR (metabolism); CREATININE (metabolism); DIABETIC RETINOPATHY (blood, drug therapy); HUMAN; LACTATES (blood); MIDDLE AGE;

PHENFORMIN (therapeutic use); PROTEINURIA; SULFONYLUREA COMPOUNDS (therapeutic use).

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ADULT; AGED; ALANINE (blood); BLOOD SUGAR (metabolism); DIABETES MELLITUS (drug therapy); DRUG THERAPY, COMBINATION; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HUMAN; INSULIN (blood); KETONE BODIES (blood); LACTATES (blood); MALE; MIDDLE AGE; PHENFORMIN (therapeutic use); PYRUVATES (blood); SOMATOTROPIN (blood); SULFONYLUREA COMPOUNDS (therapeutic use).

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ADULT; CORONARY DISEASE (complications, therapy); DIABETES MELLITUS (complications, therapy); ENGLISH ABSTRACT; FEMALE; GASTROINTESTINAL DISEASES (complications, therapy); HEALTH RESORTS; HUMAN; HYPERTENSION (therapy); MALE; MIDDLE AGE; TUBERCULOSIS, PULMONARY (complications, therapy).

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ANIMAL; BLOOD CIRCULATION (drug effects); BLOOD PRESSURE (drug effects); CENTRAL VENOUS PRESSURE (drug effects); CORONARY VESSELS (drug effects); DOGS; ENGLISH ABSTRACT; FEMALE; INSULIN (pharmacodynamics); MALE; RECEPTORS, ADRENERGIC (drug effects); RECEPTORS, CHOLINERGIC (drug effects); TIME FACTORS; VASCULAR RESISTANCE (drug effects).

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ANIMAL; DIABETES MELLITUS (enzymology, metabolism); FATTY ACIDS (metabolism); GLUCOSE TOLERANCE TEST; GLYCOSURIA (metabolism); GUINEA PIGS; HYDROXYBUTYRATE DEHYDROGENASE (metabolism); IN VITRO; KETONE BODIES (blood); MALE; MITOCHONDRIA, LIVER (enzymology, metabolism); OXIDATION-REDUCTION; OXIDATIVE PHOSPHORYLATION.

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BINDING SITES; CALCIUM; CHEMISTRY; LIPOSOMES; MAGNESIUM; OSMOLAR CONCENTRATION; PHOSPHATIDYL SERINES; SURFACE PROPERTIES; U.S. GOVT SUPPORTED, N.I.H.).

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ADULT; AGED; DENTAL CALCULUS (complications); DENTAL PLAQUE (complications); DIABETES MELLITUS (complications); DIABETIC DIET; GINGIVAL POCKET (etiology); HUMAN; INSULIN (therapeutic use); MIDDLE AGE; PERIODONTAL DISEASES (etiology); PERIODONTAL INDEX; U.S. GOVT SUPPORTED, N.I.H.).

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ADULT; CHOLESTEROL (blood); CLIMACTERIC (drug effects); DRUG COMBINATIONS; ESTRADIOL (analogs & derivatives, administration & dosage, therapeutic use); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLYCERIN (blood); HUMAN; LIPIDS (blood); MIDDLE AGE; NORGESTREL (administration & dosage, therapeutic use); TRIGLYCERIDES (blood).

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[GLIBORNURIDE—FIELD STUDY ON AN ORAL ANTIDIABETIC AGENT. RESULTS OF THERAPY WITH GLIBORNURIDE IN A LARGE NUMBER OF PATIENTS] Schmitt EW, Nijssen J *Med Welt* 29: 1170-4, 28 Jul 78 (Ger) DL/78NOV474

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ANIMAL; COMPARATIVE STUDY; IN VITRO; INSULIN (secretion); MALE; MANNOSE (pharmacodynamics); RATS.

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ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE (metabolism); ANIMAL; BRAIN (blood supply, metabolism); CEREBRAL ANOXIA (metabolism); CEREBROVASCULAR CIRCULATION; CONVULSIONS (metabolism); EXTRACELLULAR SPACE (metabolism); HYDROGEN-ION CONCENTRATION (physiology); HYPOGLYCEMIA (metabolism); MALE; OXYGEN CONSUMPTION; POTASSIUM (metabolism); RATS; REGIONAL BLOOD FLOW; U.S. GOVT SUPPORTED, N.I.H.); VASODILATION.

EVIDENCE AGAINST H⁺ AND K⁺ AS MAIN FACTORS FOR THE CONTROL OF CEREBRAL BLOOD FLOW: A MICROELECTRODE STUDY. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *Ciba Found Symp* 313-37, Mar 78 (Eng) DL/78NOV272

Nilsson-Ehle P

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ADIPOSE TISSUE (drug effects, enzymology); ADULT; ALCOHOL, ETHYL (blood, diagnostic use); BLOOD SUGAR (metabolism); GLUCOSE (diagnostic use); GLYCERIN (blood); HUMAN; INSULIN (blood); LIPOPROTEIN LIPASE (metabolism); MALE; TRIGLYCERIDES (blood).

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ANIMAL; BLOOD PLATELETS (enzymology); ENZYME ACTIVATION (drug effects); FRUCTOSE DIPHOSPHATES (pharmacodynamics); HUMAN; KINETICS; PYRUVATE KINASE (blood, isolation & purification); SWINE.

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FREE FATTY ACID AND ARTERIAL OXYGEN CHANGES FOLLOWING MAJOR INJURY: A CORRELATION BETWEEN HYPOXEMIA AND INCREASED FREE FATTY ACID LEVELS. Nixon JR, Brock-Utne JG *J Trauma* 18: 23-6, Jan 78 (Eng) *DL/78NOV110

ADULT; ANOXEMIA (etiology); ARTERIES; FATTY ACIDS, NONESTERIFIED (blood); FRACTURES (blood, complications); HUMAN; MALE; OXYGEN (blood).

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EFFECTS OF HEXOSES ON INSULIN BIOSYNTHESIS, CONTENT, AND RELEASE IN CHANNEL CATFISH ISLETS. Fletcher DJ, Noe BD, Hunt EL *Gen Comp Endocrinol* 35: 121-6, Jun 78 (Eng) DL/78NOV342

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AGE FACTORS; AGED; CADMIUM POISONING (occurrence); CADMIUM (toxicity, urine); DOSE-RESPONSE RELATIONSHIP, DRUG; EPIDEMIOLOGIC METHODS; FEMALE; FRESH WATER (analysis); GLYCOSURIA; HUMAN; JAPAN; MALE; MAXIMUM PERMISSIBLE EXPOSURE LEVEL; MIDDLE AGE; PROTEINURIA (chemically induced); RETINOL BINDING PROTEINS (urine); RICE (analysis); WATER POLLUTANTS (toxicity); WATER POLLUTANTS, CHEMICAL (toxicity).

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[VIRAL INFECTION AND JUVENILE DIABETES MELLITUS] Toyoshima H, Namba M, Nonaka T, Tarui S *Horumon To Rinsho* 26: 661-9, Jul 78 (Jpn) DL/78NOV246

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ANALYSIS OF LINKAGE BETWEEN THE MAJOR HISTOCOMPATIBILITY SYSTEM AND JUVENILE, INSULIN-DEPENDENT DIABETES IN MULTIPLE FAMILIES. RE-ANALYSIS OF DATA. Barbosa J, Chern MM, Noreen H, Anderson VE *J Clin Invest* 62: 492-5, Aug 78 (Eng) DL/78NOV409

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AMELOGENESIS IMPERFECTA (pathology); CHILD, PRESCHOOL; DENTAL ENAMEL (ultrastructure); DENTIN (ultrastructure); DENTINOGENESIS IMPERFECTA (pathology); FEMALE; HUMAN; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (pathology); MALE; MICRO-RADIOGRAPHY, PREGNANCY IN DIABETES; PREGNANCY; TOOTH CALCIFICATION; TOOTH, DECIDUOUS (pathology).

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ON THE RATE-LIMITING STEP IN THE TRANSFER OF LONG-CHAIN ACYL GROUPS ACROSS THE INNER MEMBRANE OF BROWN ADIPOSE TISSUE MITOCHONDRIA. Normann PT, Ingebretsen OC, Flatmark T *Biochim Biophys Acta* 501: 286-95, 9 Feb 78 (Eng) *DL/78NOV41

ACCLIMATIZATION; ACYLTRANSFERASES (metabolism); ANIMAL; BODY TEMPERATURE REGULATION; BROWN FAT (metabolism); FATTY ACID DESATURASES (metabolism); FATTY ACIDS (metabolism); FLAVOPROTEINS (metabolism); GUINEA PIGS; MEMBRANES (metabolism); MITOCHONDRIA (metabolism); OXIDATION-REDUCTION.

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HEPATIC SUPPORT WITH HEPATOCYTE SUSPENSIONS IN A PERMEABLE MEMBRANE DIALYZER. Olumide F, Eliashiv A, Kralios N, Norton L, Eiseman B *Surgery* 82: 599-606, Nov 77 (Eng) *DL/78NOV23

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ACIDOSIS, DIABETIC (drug therapy); ADOLESCENCE; CHILD; CHILD, PRESCHOOL; DOSE-RESPONSE

RELATIONSHIP, DRUG; HUMAN; INFUSIONS, PARENTERAL; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (drug therapy).

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[CURRENT DATA ON THE PHYSIOPATHOLOGY OF DIABETIC RETINOPATHY] Canciu G, Nuta M *Rev Chir [Oftalmol]* 27: 103-6, Apr-Jun 78 (Rum) DL/78NOV553

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EFFECTS OF GLUCOSE AND ARGININE ON THE RELEASE OF IMMUNOREACTIVE SOMATOSTATIN FROM THE ISOLATED PERFUSED RAT PANCREAS. Efendic S, Nylen A, Roovete A, Uvnas-Wallenstein K *FEBS Lett* 92: 33-5, 1 Aug 78 (Eng) DL/78NOV309

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ADULT; AGE FACTORS; BLOOD PRESSURE; BLOOD SUGAR; CARDIOVASCULAR DISEASES (mortality); FOLLOW-UP STUDIES; GERMANY, WEST; HUMAN; LIPIDS (blood); MALE; MIDDLE AGE; MYOCARDIAL INFARCT (mortality); SEX FACTORS; TIME FACTORS; URIC ACID (blood).

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ALPHA 1-ANTITRYPSIN (deficiency); DRUG DEPENDENCE (pathology); GLUCOCORTICOIDS (pharmacodynamics); HEPATITIS (pathology); HUMAN; HYPOTHYROIDISM (pathology); INFANT, NEWBORN; INFANT, PREMATURE; MATERNAL-FETAL EXCHANGE; METHYLPREDNISOLONE (pharmacodynamics); PHOSPHATIDYLCHOLINES (analysis); PHOSPHATIDYLGLYCEROLS (analysis); PHOSPHOLIPIDS (analysis); PREGNANCY IN DIABETES (pathology); PREGNANCY COMPLICATIONS (pathology); PULMONARY SURFACTANT; RESPIRATORY DISTRESS SYNDROME (pathology); SURFACE TENSION; UTERINE HEMORRHAGE (pathology).

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[EFFECT OF HEXAHYDROBIQUINONE-4 (KQ4) ON THE BIOENERGETICS AND FUNCTIONAL ACTIVITY OF THE MYOCARDIUM IN ISCHEMIA] Pichugin VV, Obolnikova EA, Samokhvalov GI, Gatsura VV *Kardiologiya* 17: 79-83, Dec 77 (Rus) *DL/78NOV112

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EATING PATTERNS OF MASSIVELY OBESE INDIVIDUALS. Bray GA, Zachary B, Dahms WT, Atkinson RL, Oddie TH *J Am Diet Assoc* 72: 24-7, Jan 78 (Eng) *DL/78NOV99

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SECONDARY DIABETIC RETINOPATHY IN CHRONIC PANCREATITIS. Maekawa N, Ohneda A, Kai Y, Saito Y, Koseki S *Am J Ophthalmol* 85: 835-40, Jun 78 (Eng) DL/78NOV632

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STIMULATION BY GASTRO-INTESTINAL HORMONES OF CYCLIC ADENOSINE 3': 5'-MONOPHOSPHATE ACCUMULATION AND INSULIN RELEASE IN ISOLATED PANCREATIC ISLETS OF THE RAT. Okayama T, Masumi M, Kobayashi K, Okuhara T, Miyoshi A *GEN* 31: 241-9, Jan-Mar 77 (Eng) DL/78NOV340

ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ANIMAL; CHOLECYSTOKININ (pharmacodynamics); COMPARATIVE STUDY; GASTROINTESTINAL HORMONES (pharmacodynamics); GLUCAGON (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); MALE; RATS; SECRETIN (pharmacodynamics).

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CIRCADIAN RHYTHM OF THE PLASMA CORTISOL LEVEL IN CASES OF PROLONGED COMA. Okuyama H, Endo M, Ohara Y, Takase S, Itahara K *Tohoku J Exp Med* 123: 33-47, Sep 77 (Eng) *DL/78NOV24

ADULT; AGED; BLOOD SUGAR (metabolism); CIRCADIAN RHYTHM; COMA (blood); CORTICOTROPIN (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HUMAN; HYDROCORTISONE (blood); MALE; MIDDLE AGE; THYROTROPIN-RELEASING HORMONE (pharmacodynamics); THYROTROPIN (blood); TIME FACTORS; 17-HYDROXYCORTICOSTEROIDS (urine).

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EFFECT OF EXPERIMENTAL HYPERINSULINEMIA ON INSULIN BINDING AND GLU-

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DIABETES MELLITUS (occurrence); FEMALE; HUMAN; MALE; NIGERIA; REMISSION.

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (pharmacodynamics); ANIMAL; CELLS, CULTURED; DACTINOMYCIN (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); GLUCAGON (pharmacodynamics); LIVER (cytology, enzymology); PHOSPHOENOLPYRUVATE CARBOXYKINASE (metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H.)

ADENOSINE 3':5-MONOPHOSPHATE IN PERINATAL RAT LIVER. ONTOGENY AND RESPONSE TO HORMONES. Di Marco PN, Oliver IT *Eur J Biochem* 87: 235-41, 15 Jun 78 (Eng) DL/78NOV295

PERINATAL CHANGES IN LIVER CORTICOSTERONE, SERUM INSULIN AND PLASMA GLUCAGON AND CORTICOSTERONE IN THE RAT. Di Marco PN, Ghisalbetti AV, Martin CE, Oliver IT *Eur J Biochem* 87: 243-7, 15 Jun 78 (Eng) DL/78NOV296

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THE GLUCOSE TOLERANCE, INSULIN RESPONSE AND PANCREATIC EXOCRINE FUNCTION IN PATIENTS AFTER ACUTE PANCREATITIS. Olszewski S, Kinalska I, Dugosz J, Stasiewicz J, Gabryelewicz A *Endokrynologia* 71: 183-91, Apr 78 (Eng) DL/78NOV286

ACUTE DISEASE; ADULT; CORTISONE (diagnostic use); DIABETES MELLITUS (etiology); FEMALE; FOLLOW-UP STUDIES; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MALE; MIDDLE AGE; PANCREAS (physiopathology); PANCREATITIS (complications, physiopathology); RISK.

Olumide F

HEPATIC SUPPORT WITH HEPATOCYTE SUSPENSIONS IN A PERMEABLE MEMBRANE DIALYZER. Olumide F, Eliashiv A, Kralios N, Norton L, Eiseman B *Surgery* 82: 599-606, Nov 77 (Eng) *DL/78NOV23

ANIMAL; BILIRUBIN (metabolism); BLOOD SUGAR (metabolism); BLOOD UREA NITROGEN; HEMOPERFUSION (methods); HEPATECTOMY; HEPATIC COMA (etiology, therapy); KIDNEY, ARTIFICIAL; LIVER (cytology, metabolism); MODELS, BIOLOGICAL; OXYGEN CONSUMPTION; OXYGENATORS, MEMBRANE; PYRUVATES (metabolism); SWINE; TRYPTAN BLUE; U.S. GOVT SUPPORTED, N.I.H.)

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EVIDENCE FOR A SINGLE LOCUS CONTROLLING SUSCEPTIBILITY TO VIRUS-INDUCED DIABETES MELLITUS. Onodera T, Yoon JW, Brown KS, Notkina AL *Nature* 274: 693-6, 17 Aug 78 (Eng) DL/78NOV493

ALLELES; ANIMAL; CROSSES, GENETIC; DIABETES MELLITUS (etiology, familial & genetic); ENCEPHALOMYOCARDITIS VIRUSES; ENTEROVIRUS INFECTIONS

(complications); FEMALE; GENES, RECESSIVE; HYBRIDIZATION; MALE; MICE.

Ontko JA

ACTIVATION OF MITOCHONDRIAL FATTY ACID OXIDATION BY CALCIUM. CONVERSION TO THE ENERGIZED STATE. Otto DA, Ontko JA *J Biol Chem* 253: 789-99, 10 Feb 78 (Eng) *DL/78NOV94

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[EFFECTS OF EXPERIMENTAL SURGICAL STIMULATION ON THE ACID-BASE EQUILIBRIUM IN ANESTHETIZED RATS LACKING ADRENAL MEDULLA] Quatrini U, Benigno A, Orlando F *Boll Soc Ital Biol Sper* 53: 8-14, 30 Jan 77 (Ita) *DL/78NOV1

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[HORMONAL CONTROL OF THE CALCIUM PERMEABILITY OF CELL MEMBRANES] Orlov RS, Barabanova VV *Usp Fiziol Nauk* 9: 76-102, Apr-Jun 78 (Rus) [119 ref.] DL/78NOV606

ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); ANIMAL; BONE AND BONES (metabolism); CALCITONIN (pharmacodynamics); CALCIUM (metabolism, physiology); CELL MEMBRANE PERMEABILITY (drug effects); CELL MEMBRANE (physiology); ELECTROPHYSIOLOGY; GLUCAGON (pharmacodynamics); HORMONES (physiology); KIDNEY (metabolism); MYOCARDIAL CONTRACTION; MYOCARDIUM (metabolism); PARATHYROID HORMONE (pharmacodynamics, physiology); RECEPTORS, HORMONE; REVIEW.

Orowska K

[COMPARISON OF THE EFFECTS OF PHENFORMIN, BUFORMIN AND METFORMIN ON BLOOD LACTATE LEVEL] Czyzyk A, Lao B, Bartosiewicz W, Szczepanik Z, Orowska K *Pol Arch Med Wewn* 59: 241-54, Mar 78 (Pol) DL/78NOV512

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[VARIOUS BONE CHANGES IN DIABETES MELLITUS] Blum M, Tudor G, Ostap B, Ababei V, Rucinski S *Rev Med Chir Soc Med Nat Iasi* 82: 35-9, Jan-Mar 78 (Rum) DL/78NOV564

Ostrowska A

[ANALYSIS OF NUTRITION IN PATIENTS WITH JUVENILE DIABETES MELLITUS. RESULTS OF THE WARSAW DIABETES STUDY] Punciewicz B, Ostrowska A, Wysocki M, Krolewski A, Szczwczynski J *Pol Arch Med Wewn* 59: 321-9, Mar 78 (Pol) DL/78NOV521

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ACTIVATION OF MITOCHONDRIAL FATTY ACID OXIDATION BY CALCIUM. CONVERSION TO THE ENERGIZED STATE. Otto DA, Ontko JA *J Biol Chem* 253: 789-99, 10 Feb 78 (Eng) *DL/78NOV94

ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CALCIUM (metabolism, pharmacodynamics); CARNITINE (pharmacodynamics); COENZYME A (metabolism); HYDROGEN-ION CONCENTRATION (physiology); KETONE BODIES (biosynthesis); MAGNESIUM (metabolism); MALE; MITOCHONDRIA, LIVER (drug effects, metabolism); OXIDATION-REDUCTION; PALMITIC ACIDS (metabolism); RATS; RUTHENIUM RED (pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H.)

Ourgaud AG

[WHEN TO CONSIDER INDICATIONS FOR VITRECTOMY IN DIABETIC

RETINOPATHY Ourgaud AG, Chagnon AM *Bull Soc Ophthalmol Fr* 77: 825-8, Sep-Oct 78 (Fr) DL/78NOV235

DIABETIC RETINOPATHY (diagnosis, surgery); ENGLISH ABSTRACT; HUMAN; METHODS; VITREOUS BODY (surgery).

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[LIPID METABOLISM IN ACROMEGALY] Ovcharova N *Vutr Boles* 16: 1-8, 1977 (Bul) [27 ref.] *DL/78NOV156

ACROMEGALY (blood); ADOLESCENCE; ADULT; ANIMAL; CHOLESTEROL (blood); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HUMAN; HYPERCHOLESTEREMIA (blood); KETONE BODIES (blood); LIPID MOBILIZATION (drug effects); LIPIDS (blood); LIPOPROTEINS (blood); MALE; MIDDLE AGE; PHENOTYPE; PHOSPHOLIPIDS (blood); REVIEW; SOMATOTROPIN (blood, pharmacodynamics); TRIGLYCERIDES (blood).

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[EFFECT OF CLONIDINE ON PLASMA INSULIN LEVEL IN MICE (AUTHORS TRANSL.)] Ozawa H, Goto M, Takahashi M, Uematsu Y *Nippon Yakurigaku Zasshi* 74: 383-8, Apr 78 (Jpn) DL/78NOV353

ANIMAL; BLOOD SUGAR (metabolism); CLONIDINE (pharmacodynamics); ENGLISH ABSTRACT; EPINEPHRINE (pharmacodynamics); INSULIN (blood); MALE; MICE; PHENTOLAMINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics).

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SOME EFFECTS, IN MAN, OF VARYING THE LOAD OF GLUCOSE, SUCROSE, FRUCTOSE, OR SORBITOL ON VARIOUS METABOLITES IN BLOOD. Macdonald I, Keyser A, Pacy D *Am J Clin Nutr* 31: 1305-11, Aug 78 (Eng) DL/78NOV628

Paige DM

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(pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (metabolism); MALE; METHERGOLINE (pharmacodynamics); PANCREAS (drug effects, metabolism); RATS; SEROTONIN (pharmacodynamics); TRYPTOPHAN (pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H.).

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ANIMAL; CEREBELLUM (enzymology); CEREBRAL VENTRICLES (enzymology); CHOROID PLEXUS (enzymology); EPENDYMA (enzymology); FEMALE; FLUORESCENT ANTIBODY TECHNIC (methods); GANGLIA, SPINAL (enzymology); HEXOKINASE (analysis); HIPPOCAMPUS (enzymology); HISTOCYTOCHEMISTRY; MALE; NERVOUS SYSTEM (enzymology); NEUROGLIA (enzymology); NEURONS (enzymology); RATS; RETINA (enzymology); SYNAPSES (enzymology).

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ANIMAL; CALCIUM (metabolism, physiology); GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (metabolism); IPROVERATRIL (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, metabolism); MALE; POTASSIUM (pharmacodynamics); RATS; TIME FACTORS.

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